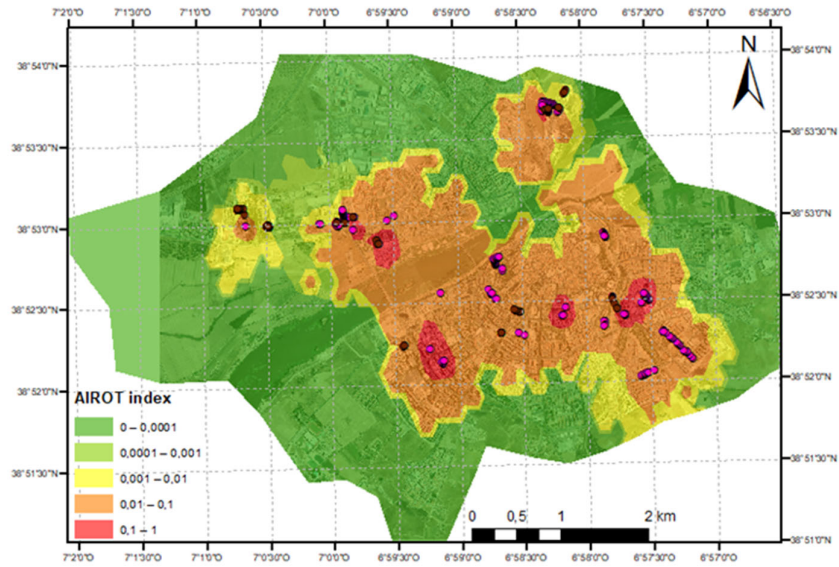


## Supplementary Materials

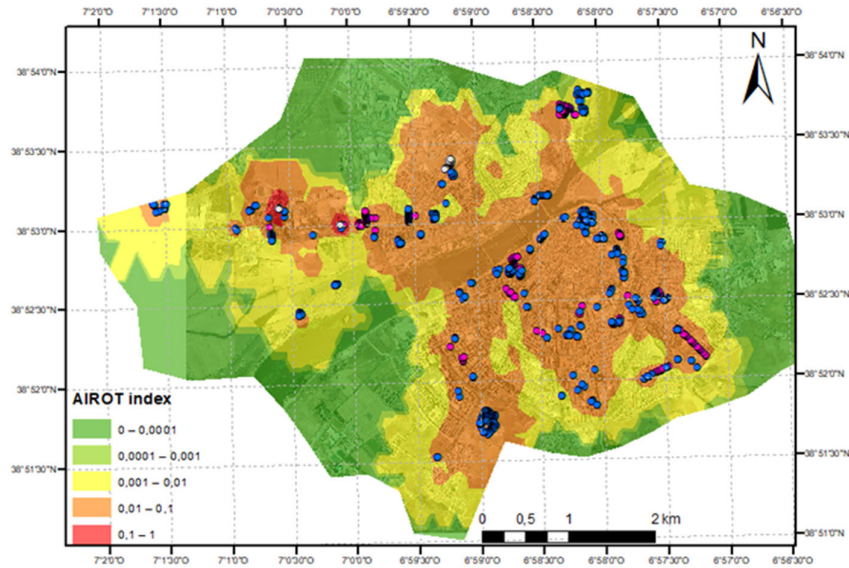
**Table S1.** Results for the different functions that were tested in the Kriging analysis according to the RMSE and Spearman's rank coefficient. The best scores are presented in bold.

City	Function Maps	Stable	Circular	Spherical	Exponential	Gaussian
Badajoz	JAN	r: 0.529 RMSE: 0.929	r: 0.634 RMSE: 0.703	r: 0.640 RMSE: 0.699	<b>r: 0.663</b> <b>RMSE: 0.731</b>	r: 0.564 RMSE: 0.712
	FEB	r: 0.784 RMSE: 1.281	r: 0.785 RMSE: 1.274	r: 0.786 RMSE: 1.263	<b>r: 0.824</b> <b>RMSE: 1.232</b>	r: 0.779 RMSE: 1.278
	MAR	r: 0.800 RMSE: 0.854	r: 0.794 RMSE: 1.185	r: 0.811 RMSE: 1.036	<b>r: 0.817</b> <b>RMSE: 1.041</b>	r: 0.800 RMSE: 1.123
	MAYJUN	r: 0.825 RMSE: 0.650	r: 0.824 RMSE: 0.614	r: 0.824 RMSE: 0.567	<b>r: 0.824</b> <b>RMSE: 0.469</b>	r: 0.825 RMSE: 0.650
Cáceres	JAN	r: 0.719 RMSE: 1.778	r: 0.716 RMSE: 1.615	r: 0.721 RMSE: 1.602	<b>r: 0.741</b> <b>RMSE: 1,653</b>	r: 0.707 RMSE: 1,609
	FEB	<b>r: 0.752</b> <b>RMSE: 1,422</b>	r: 0.707 RMSE: 1,279	r: 0.711 RMSE: 1,277	r: 0.738 RMSE: 1,296	r: 0.674 RMSE: 1,248
	MAR	r: 0.707 RMSE: 1.345	r: 0.730 RMSE: 1.323	r: 0.738 RMSE: 1.276	<b>r: 0.760</b> <b>RMSE: 1.370</b>	r: 0.707 RMSE: 1.342
	MAYJUN	r: 0.768 RMSE: 0.732	r: 0.764 RMSE: 0.819	r: 0.764 RMSE: 0.824	<b>r: 0.800</b> <b>RMSE: 0.845</b>	r: 0.750 RMSE: 0.854
Don Benito	JAN	<b>r: 0.857</b> <b>RMSE: 0.031</b>	r: 0.854 RMSE: 0.031	r: 0.855 RMSE: 0.031	r: 0.853 RMSE: 0.031	r: 0.854 RMSE: 0.030
	FEB	r: 0.729 RMSE: 0.097	<b>r: 0.774</b> <b>RMSE: 0.097</b>	r: 0.688 RMSE: 0.099	r: 0.733 RMSE: 0.097	r: 0.738 RMSE: 0.100
	MAR	r: 0.750 RMSE: 0.658	r: 0.766 RMSE: 0.645	r: 0.769 RMSE: 0.643	<b>r: 0.772</b> <b>RMSE: 0.647</b>	r: 0.750 RMSE: 0.658
	MAYJUN	r: 0.475 RMSE: 0.497	r: 0.499 RMSE: 0.594	r: 0.476 RMSE: 0.557	r: 0.464 RMSE: 0.409	<b>r: 0.516</b> <b>RMSE: 0.751</b>
Plasencia	JAN	r: 0.905 RMSE: 0.804	<b>r: 0.906</b> <b>RMSE: 0.477</b>	r: 0.906 RMSE: 0.483	r: 0.906 RMSE: 0.588	r: 0.906 RMSE: 1.522
	FEB	r: 0.482 RMSE: 0.823	r: 0.482 RMSE: 0.783	<b>r: 0.516</b> <b>RMSE: 0.739</b>	r: 0.524 RMSE: 0.810	r: 0.395 RMSE: 0.803
	MAR	r: 0.446 RMSE: 0.830	<b>r: 0.474</b> <b>RMSE: 0.794</b>	r: 0.450 RMSE: 0.821	r: 0.475 RMSE: 1.054	r: 0.390 RMSE: 0.874
	MAYJUN	r: 0.708 RMSE: 0.451	r: 0.712 RMSE: 0.475	r: 0.720 RMSE: 0.430	r: 0.722 RMSE: 0.621	<b>r: 0.722</b> <b>RMSE: 0.419</b>
Zafra	JAN	r= 0.895 RMSE=0.046	r=0.902 RMSE: 0.040	r= 0.905 RMSE: 0.040	<b>r=0.921</b> <b>RMSE: 0.038</b>	r=0.895 RMSE: 0.046
	FEB	r: 0.696 RSME: 0.024	r: 0.784 RMSE: 0.026	r: 0.788 RMSE: 0.026	<b>r: 0.799</b> <b>RMSE: 0.027</b>	r: 0.696 RMSE: 0.024

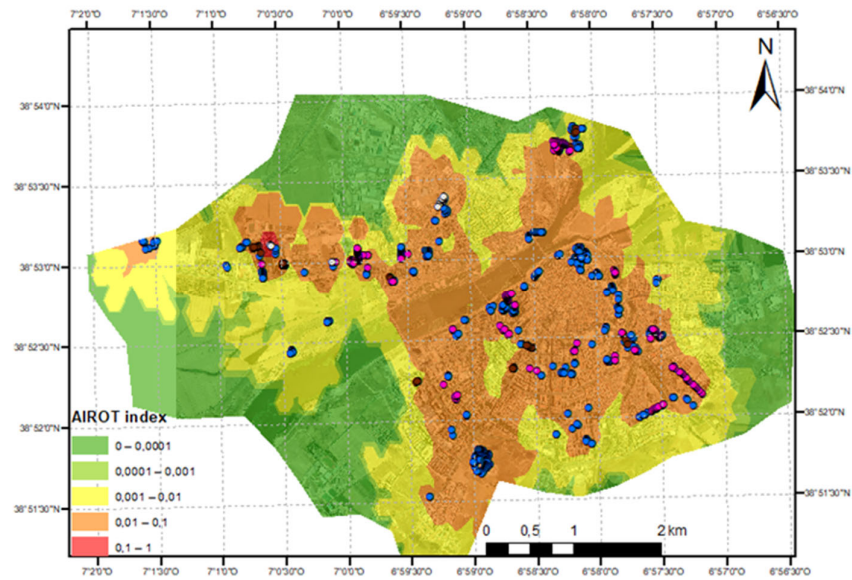
MAR	r: 0.709	r: 0.783	r: 0.793	<b>r: 0.804</b>	r: 0.709
	RSME: 0.024	RSME: 0.027	RMSE: 0.027	<b>RMSE: 0.028</b>	RMSE: 0.024
MAYJUN	r: 0.793	r: 0.792	r: 0.792	<b>r: 0.794</b>	r: 0.793
	RMSE: 0.066	RMSE: 0.061	RMSE: 0.060	<b>RMSE: 0.059</b>	RMSE: 0.066



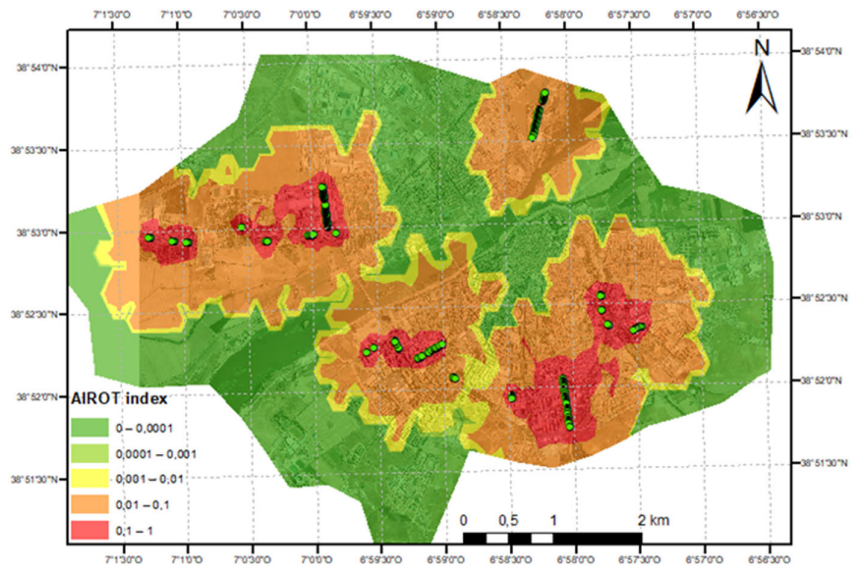
(a)



(b)

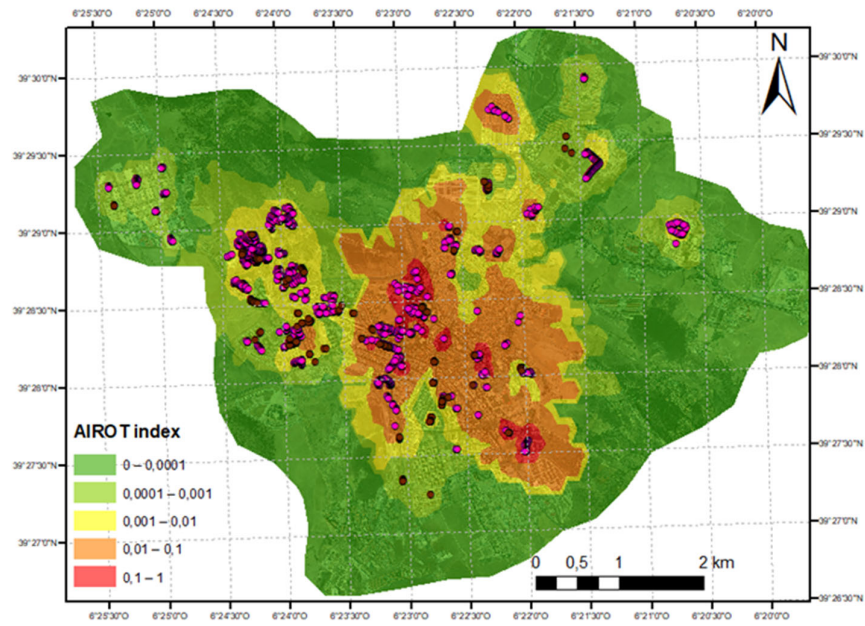


(c)

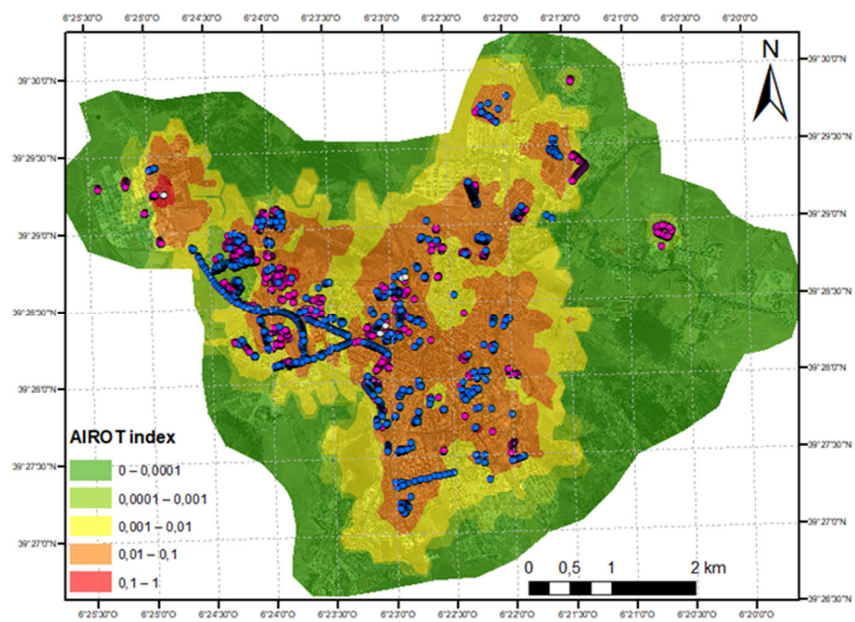


(d)

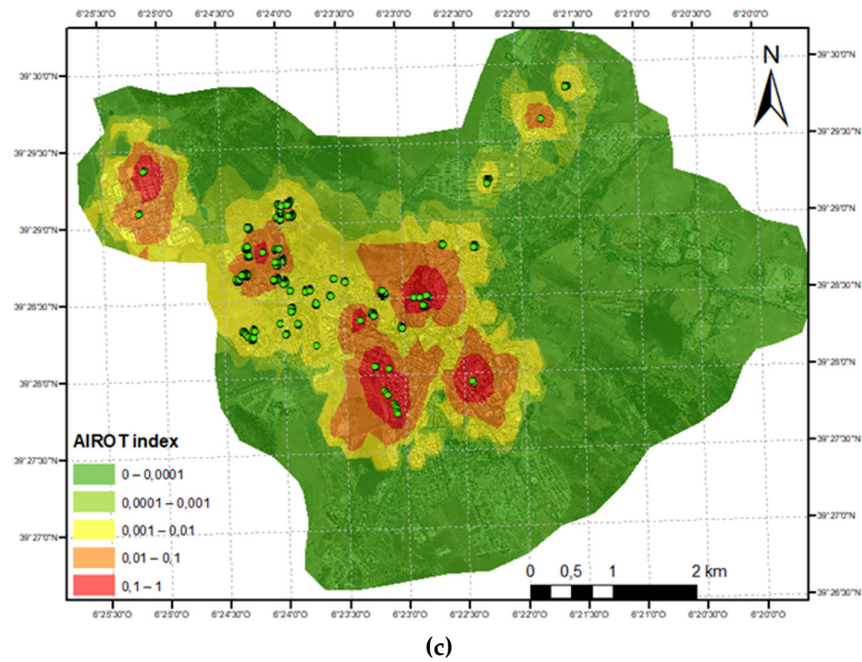
**Figure S1.** Risk maps of Badajoz for each month according to the AIROT index. (a) shows the AIROT values in the month of January for the species *C. arizonica* and *P. orientalis*. (b) shows the values in the month of February for the species *C. arizonica*, *C. macrocarpa*, *C. sempervirens* and *P. orientalis*. (c) shows the values in the month of March for the species *C. arizonica*, *C. macrocarpa* and *C. sempervirens*. (d) shows the values in the months May-June for the species *C. leylandii*.



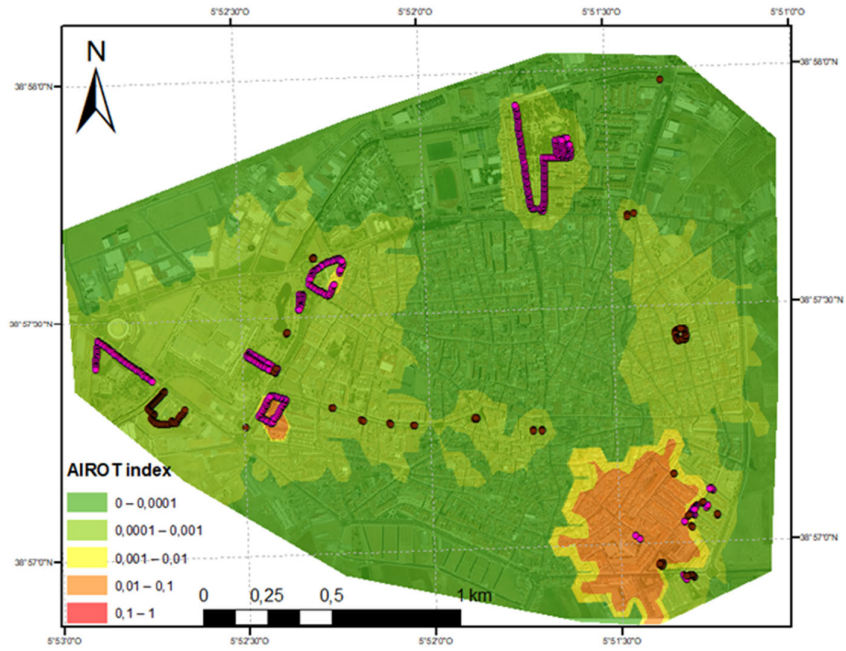
(a)



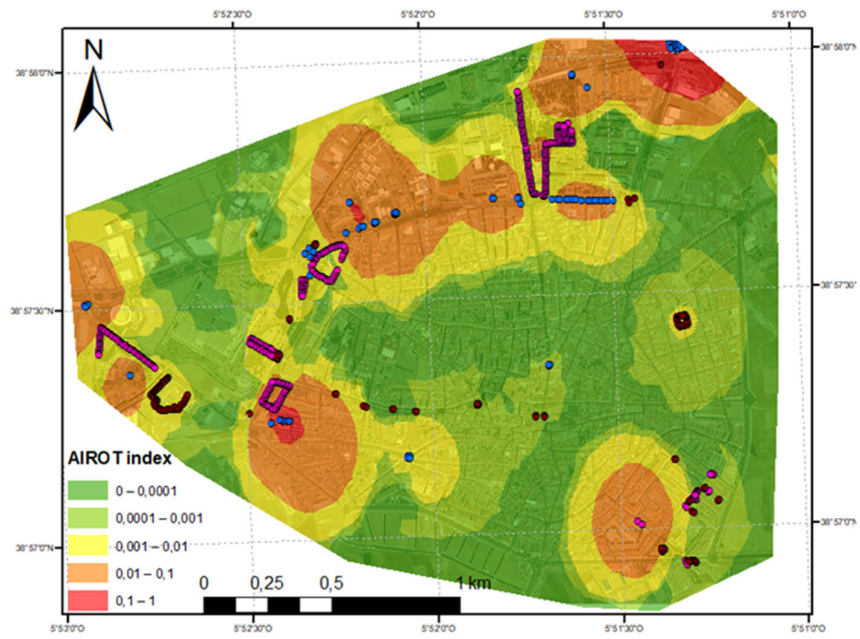
(b)



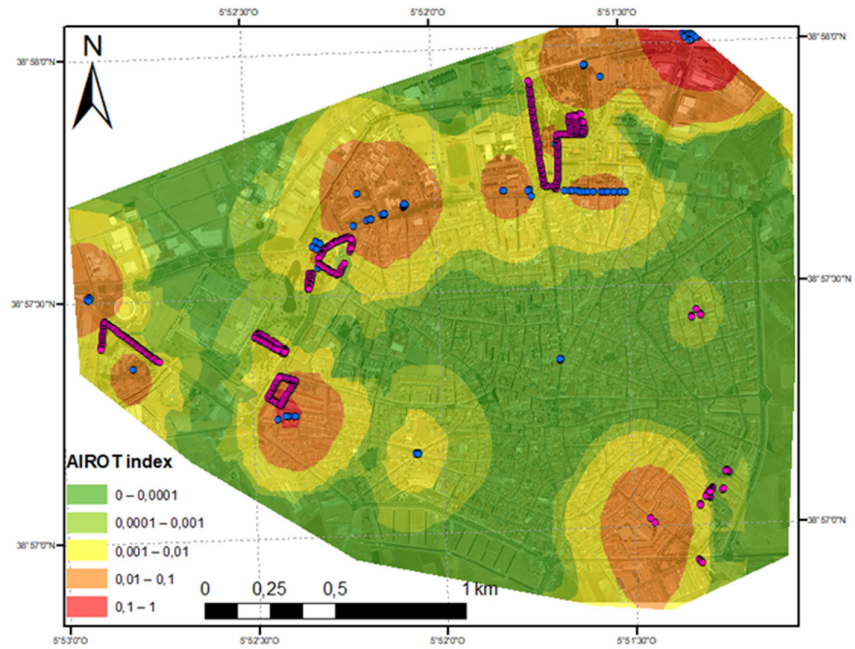
**Figure S2.** Risk maps of Cáceres for each month according to the AIROT index. **(a)** shows the AIROT values in the month of January for the species *C. arizonica* and *P. orientalis*. **(b)** shows the values in the month of February for the species *C. arizonica*, *C. macrocarpa*, *C. sempervirens* and *P. orientalis*. **(c)** shows the values in the month of March for the species *C. arizonica*, *C. macrocarpa* and *C. sempervirens*. Figure S2D shows the values in the months May-June for the species *C. leylandii*.



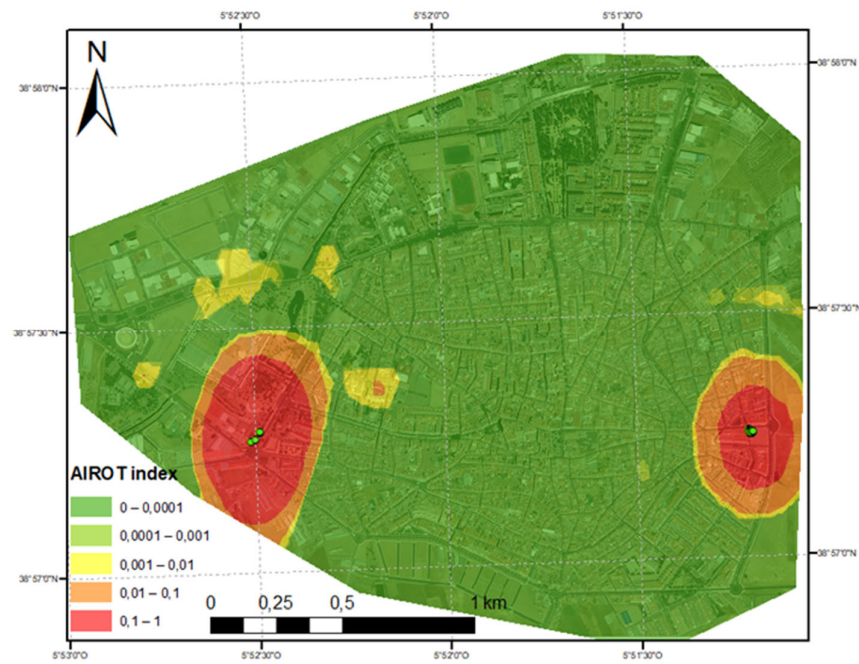
(a)



(b)

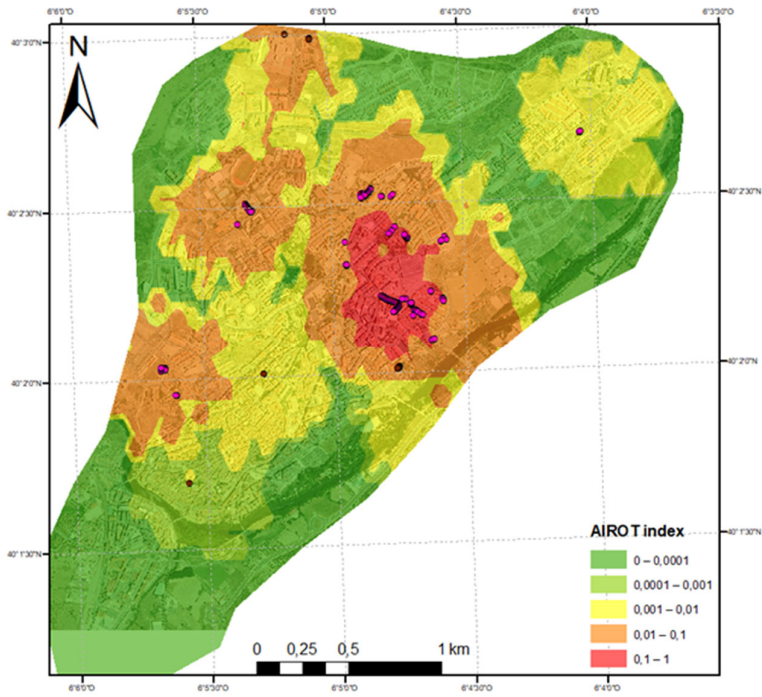


(c)

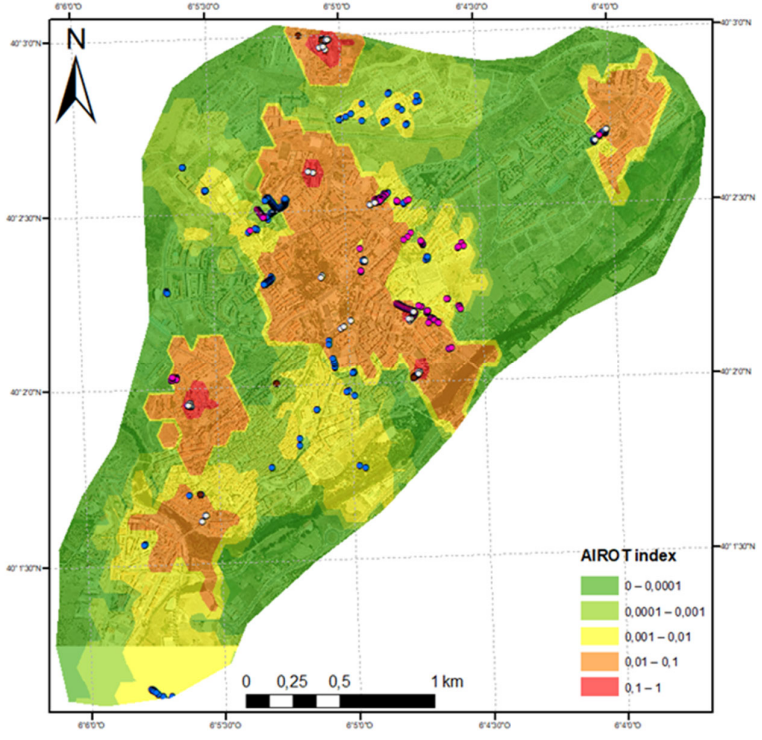


(d)

**Figure S3.** Risk maps of Don Benito for each month according to the AIROT index. (a) shows the AIROT values in the month of January for the species *C. arizonica* and *P. orientalis*. (b) shows the values in the month of February for the species *C. arizonica*, *C. macrocarpa*, *C. sempervirens* and *P. orientalis*. (c) shows the values in the month of March for the species *C. arizonica*, *C. macrocarpa* and *C. sempervirens*. (d) shows the values in the months May-June for the species *C. leylandii*.

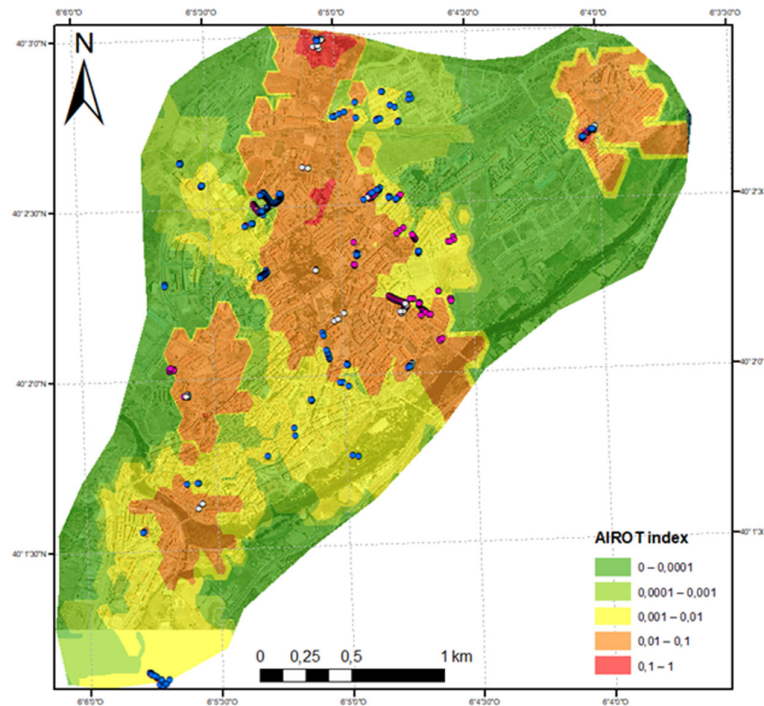


(a)

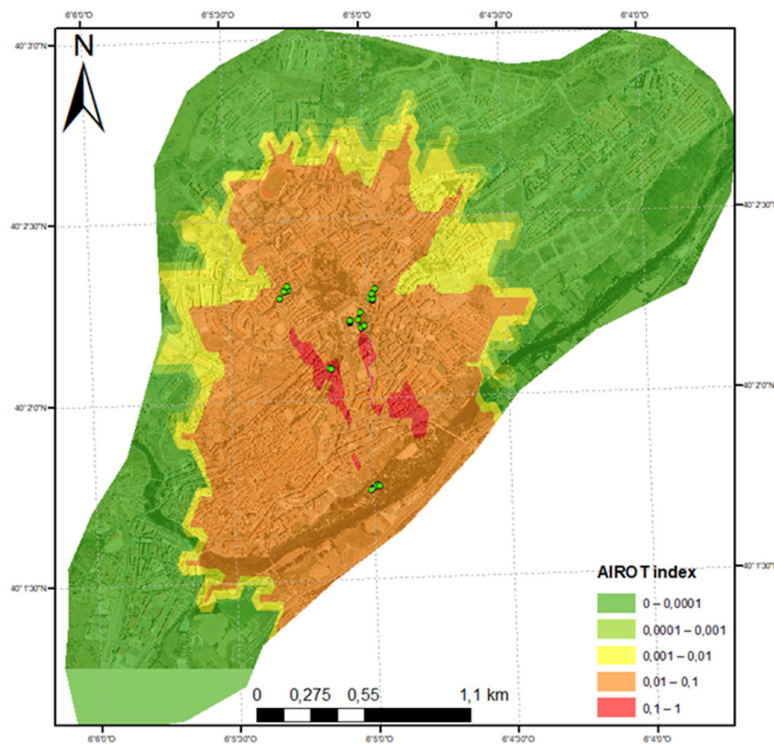


(b)



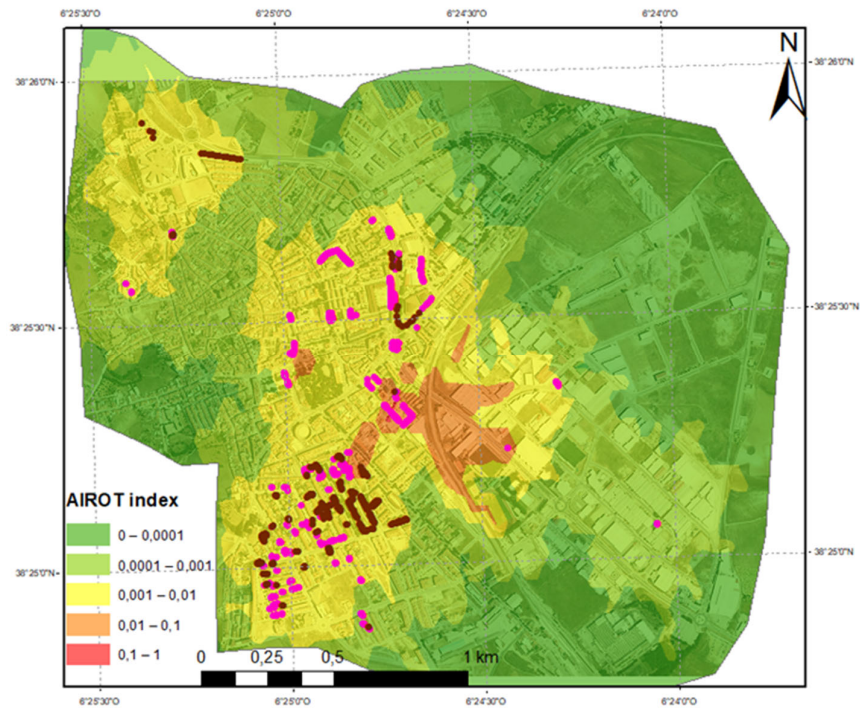


(c)

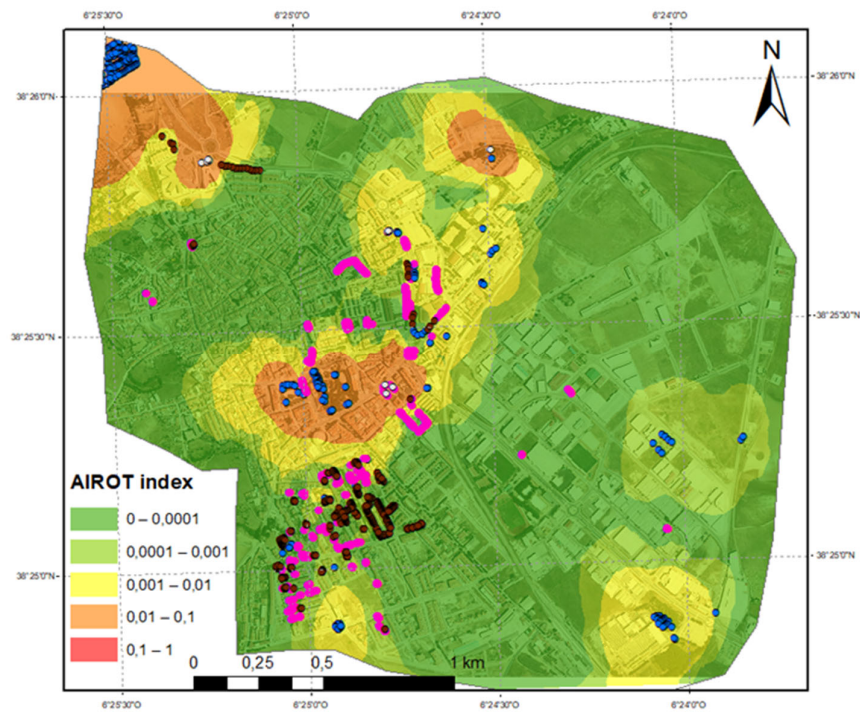


(d)

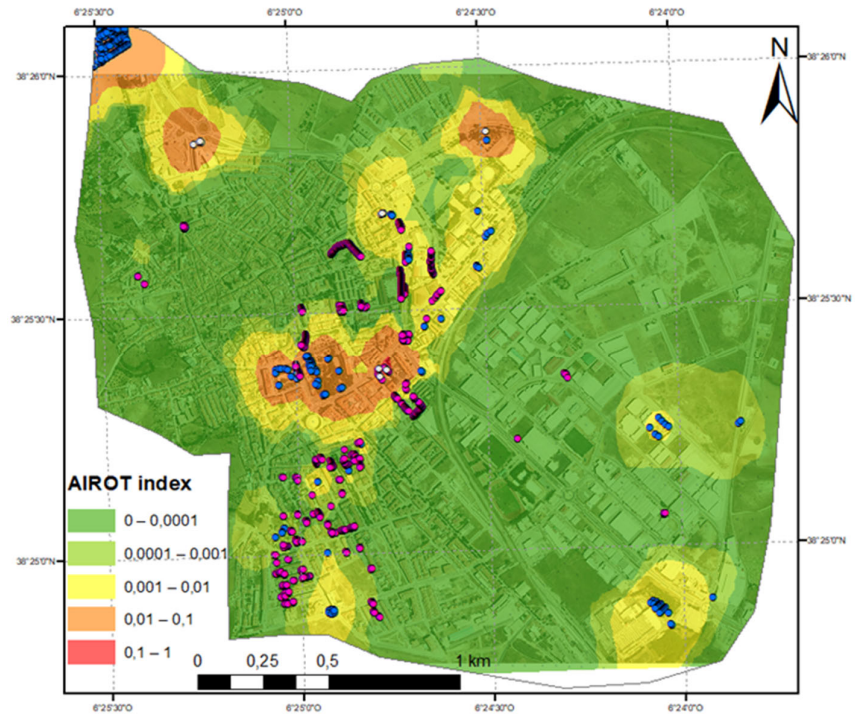
**Figure S4.** Risk maps of Plasencia for each month according to the AIROT index. (a) shows the AIROT values in the month of January for the species *C. arizonica* and *P. orientalis*. (b) shows the values in the month of February for the species *C. arizonica*, *C. macrocarpa*, *C. sempervirens* and *P. orientalis*. (c) shows the values in the month of March for the species *C. arizonica*, *C. macrocarpa* and *C. sempervirens*. (d) shows the values in the months May-June for the species *C. leylandii*.



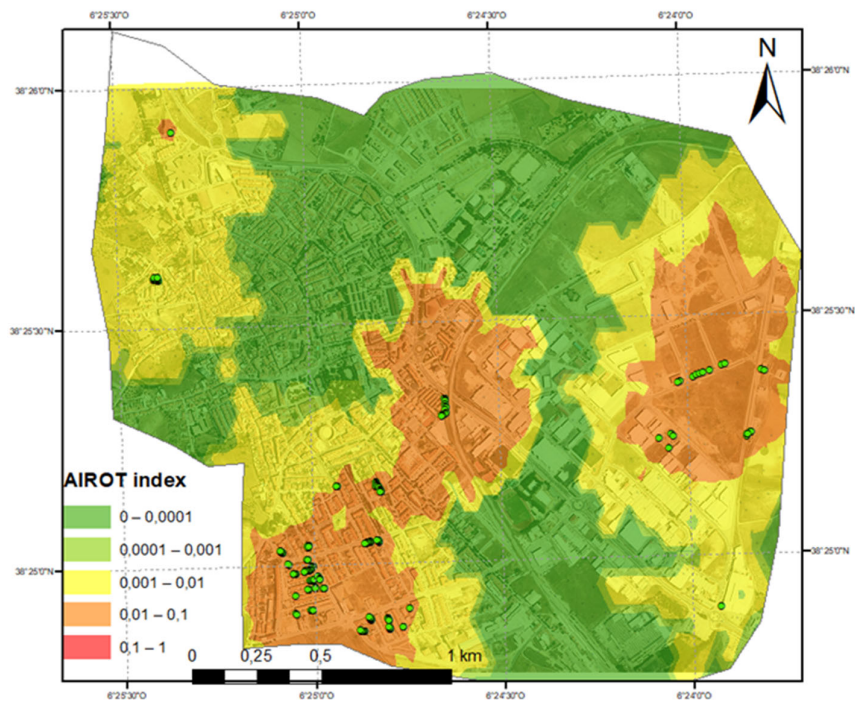
(a)



(b)



(c)



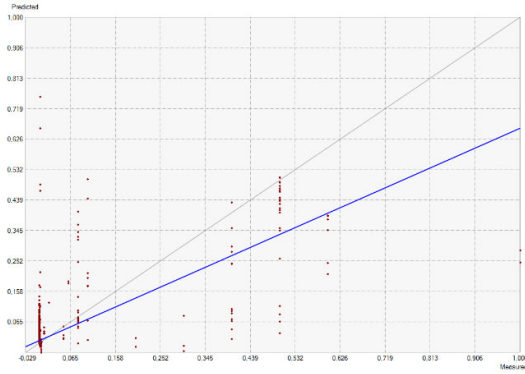
(d)

**Figure S5.** Risk maps of Zafra for each month according to the AIROT index. (a) shows the AIROT values in the month of January for the species *C. arizonica* and *P. orientalis*. (b) shows the values in the month of February for the species *C. arizonica*, *C. macrocarpa*, *C. sempervirens* and *P. orientalis*. (c) shows the values in the month of March for the species *C. arizonica*, *C. macrocarpa* and *C. sempervirens*. (d) shows the values in the months May-June for the species *C. leylandii*.

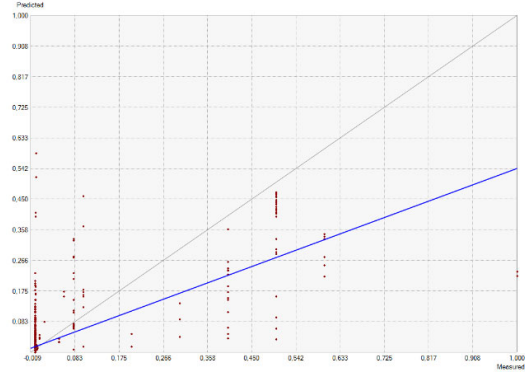
**Figure S6. Results for the cross-validation test.**

BADAJOS

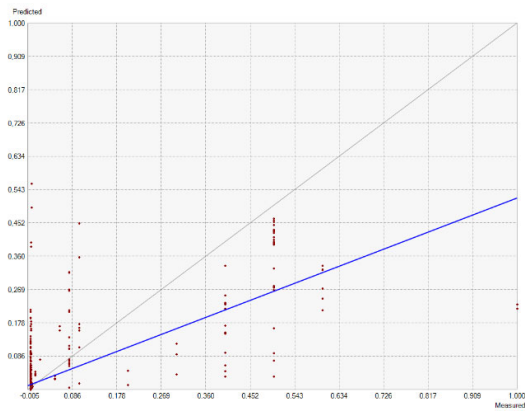
*JAN*



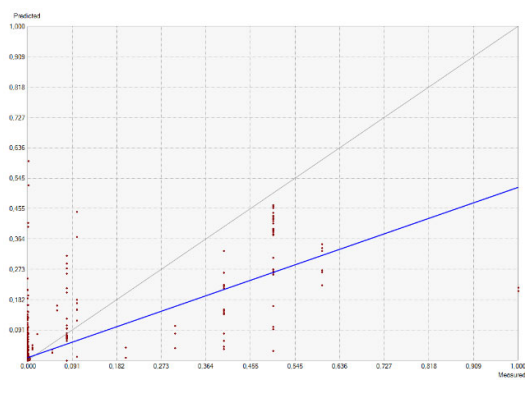
Stable



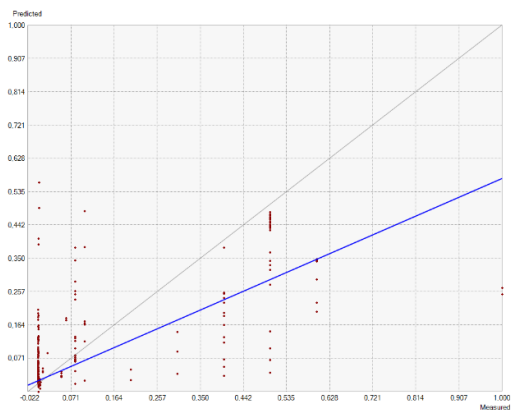
Circular



Spherical

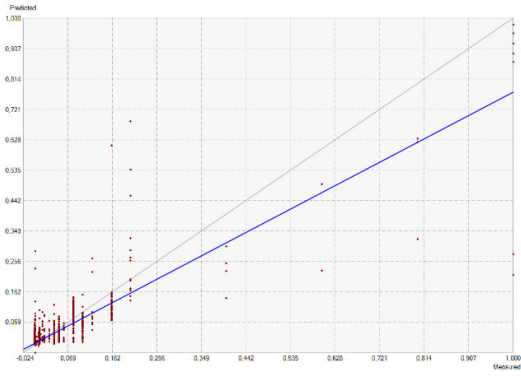


Exponential

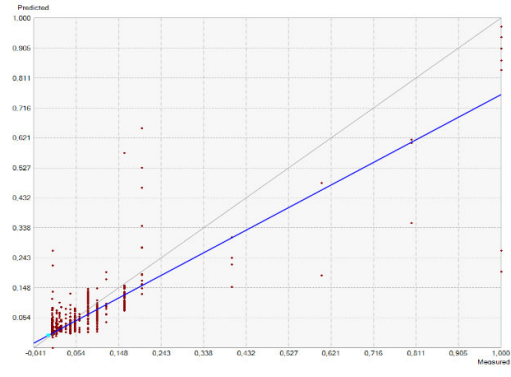


Gaussian

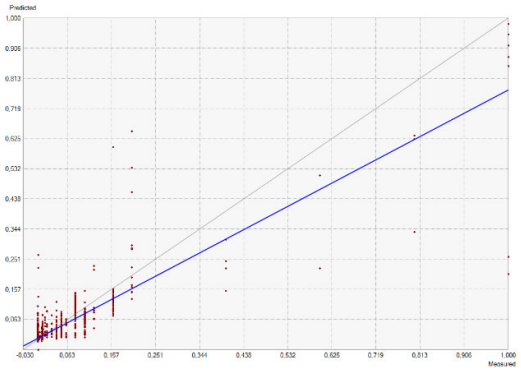
*FEB*



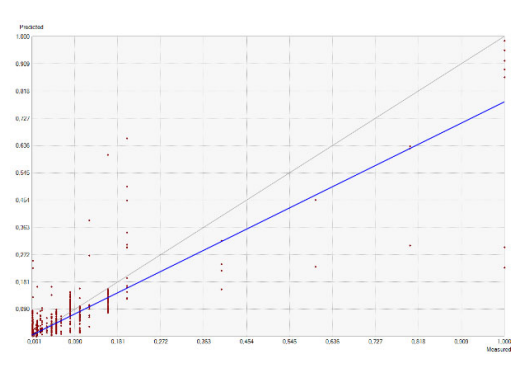
Stable



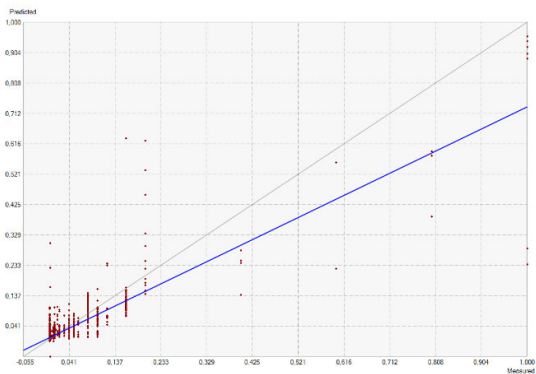
Circular



Spherical

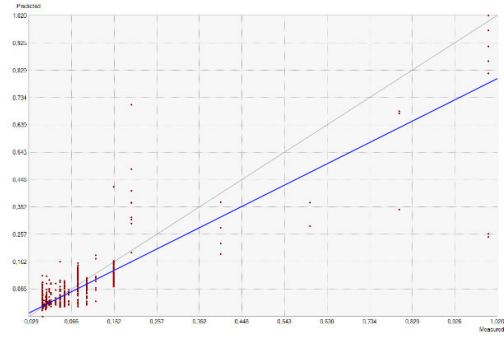
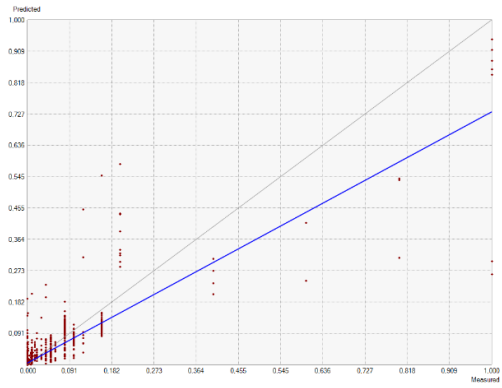


Exponential



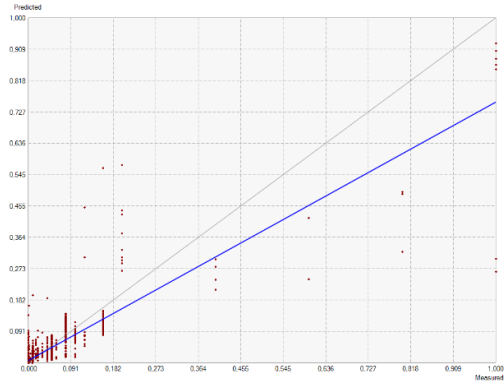
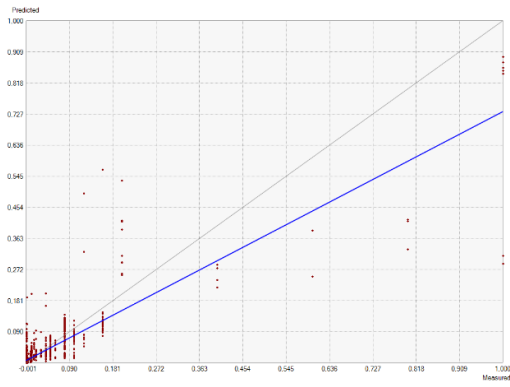
Gaussian

*MAR*



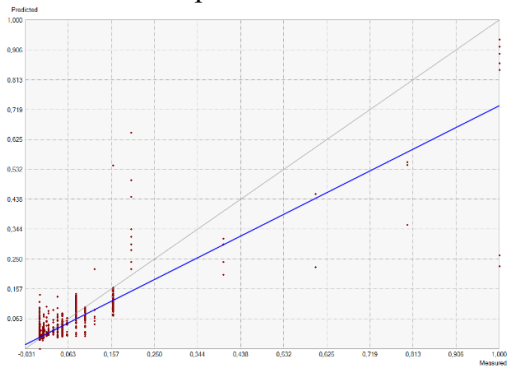
Stable

Circular



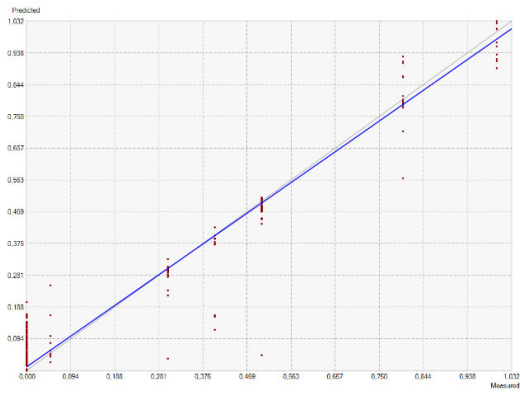
Spherical

Exponential

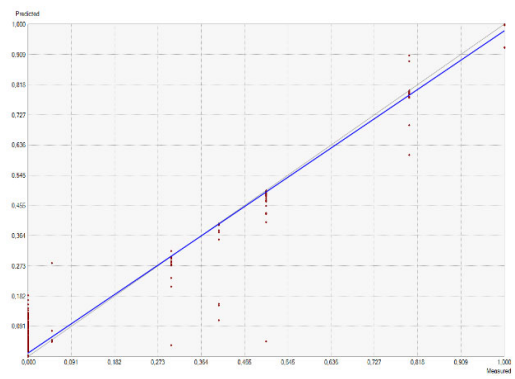


Gaussian

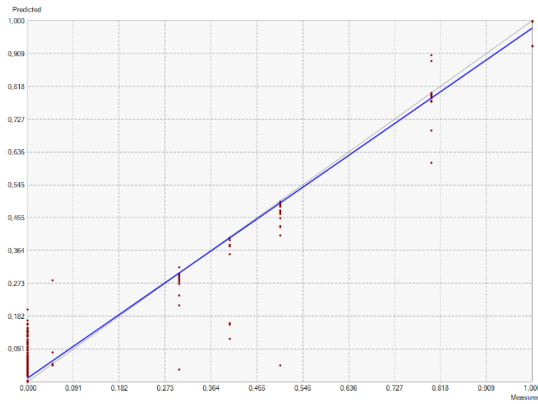
MAY/JUN



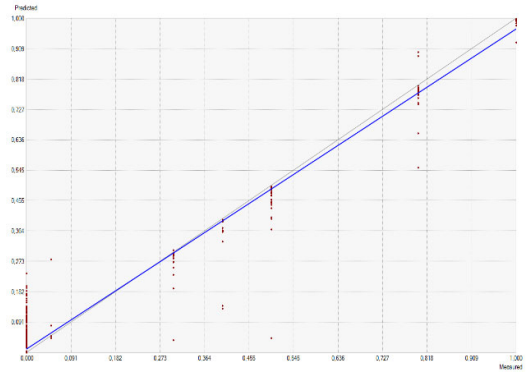
Stable



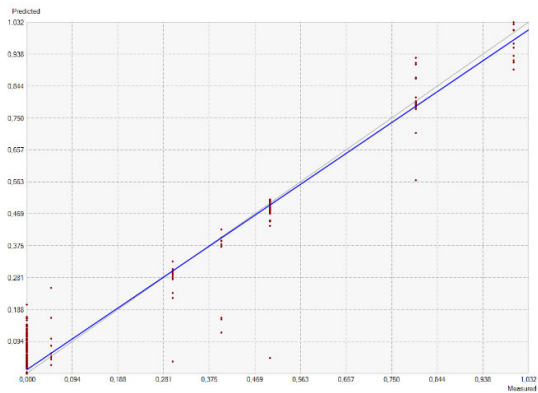
Circular



Spherical



Exponential

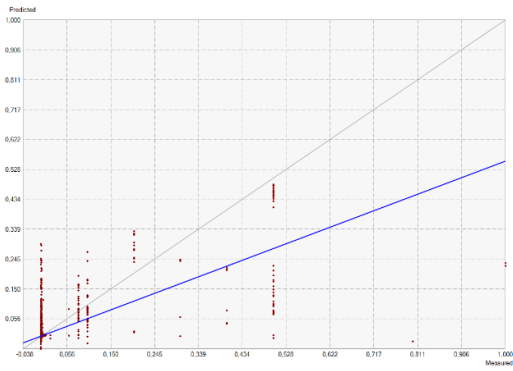


Gaussian

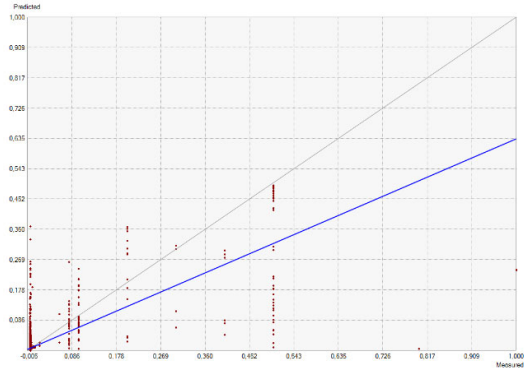
---

# CÁCERES

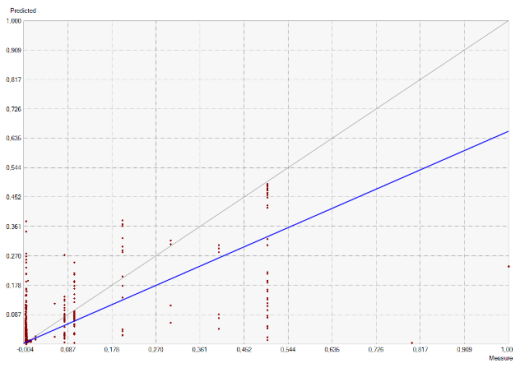
JAN



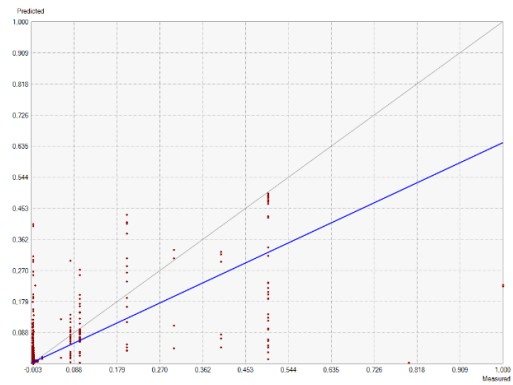
Stable



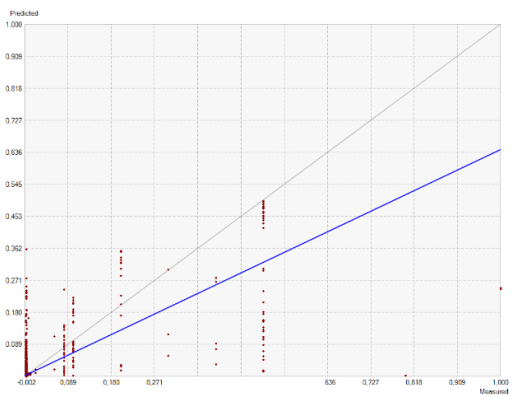
Circular



Spherical



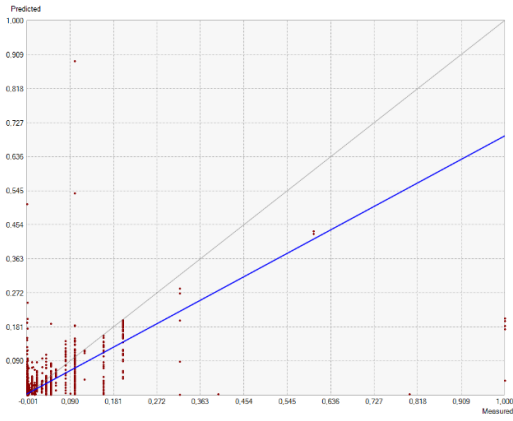
Exponential



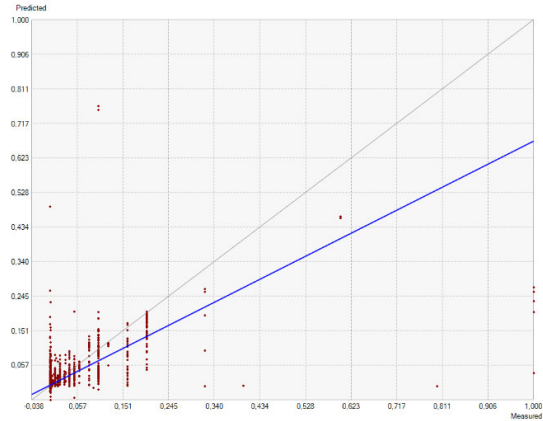
Gaussian



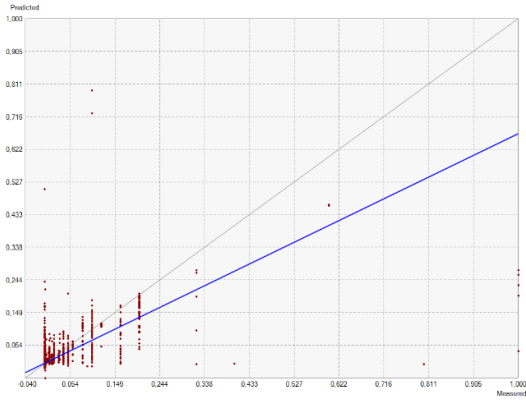
*FEB*



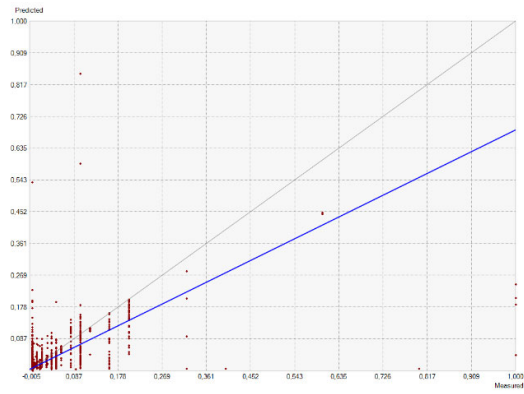
Stable



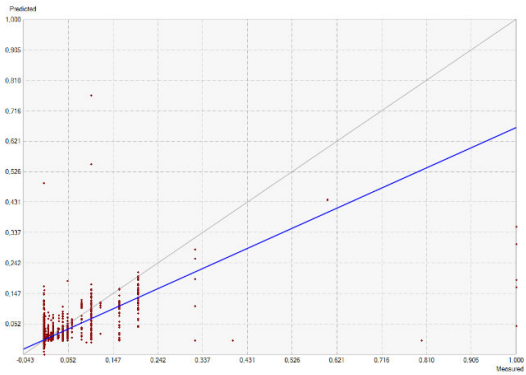
Circular



Spherical

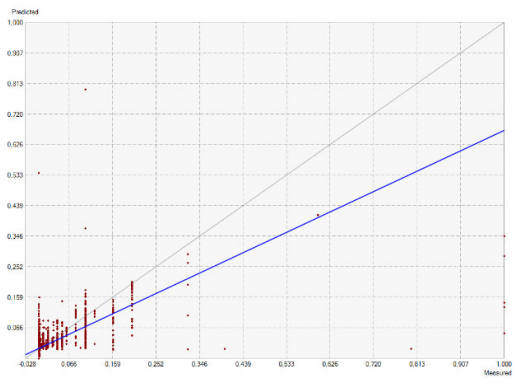


Exponential

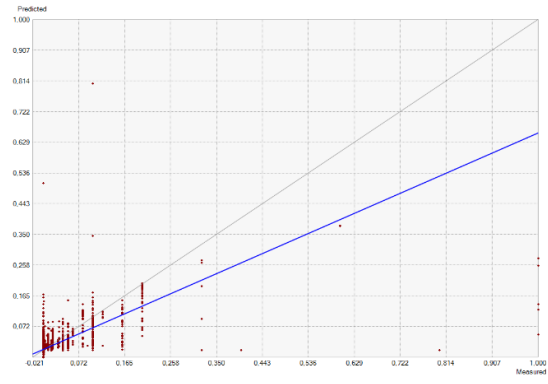


Gaussian

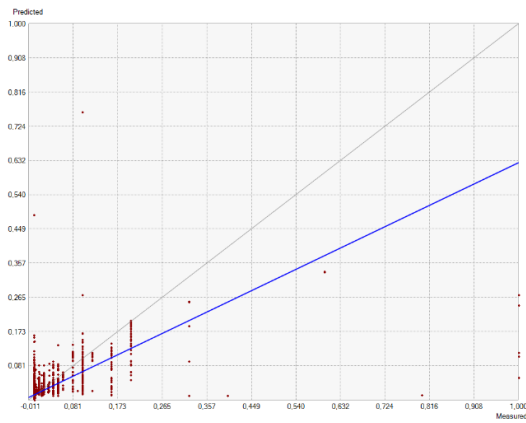
MAR



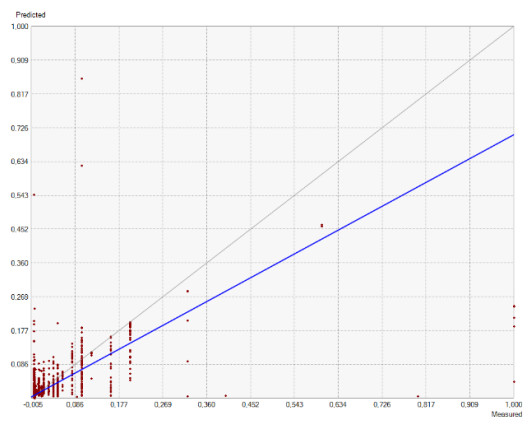
Stable



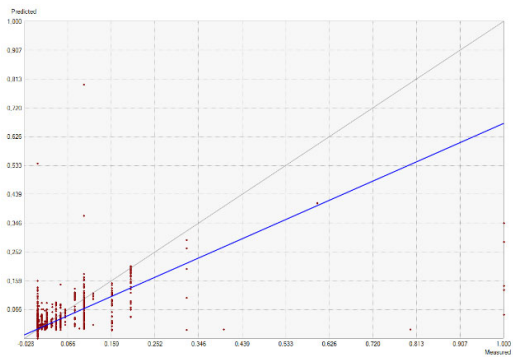
Circular



Spherical

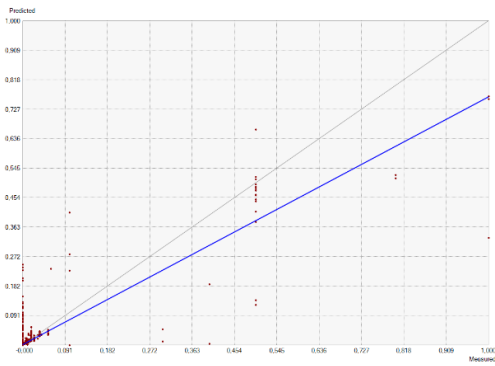


Exponential

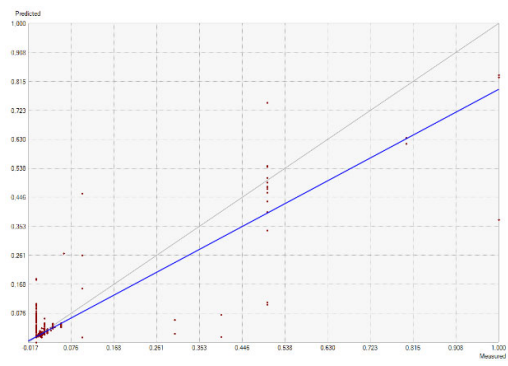


Gaussian

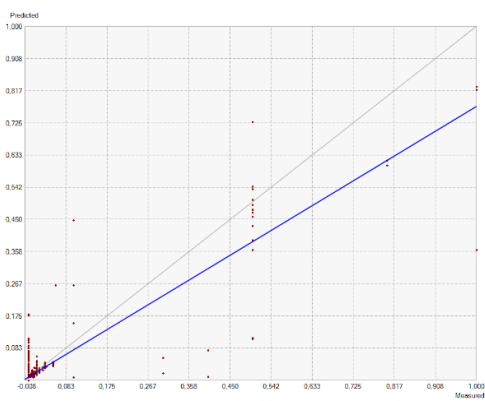
MAY/JUN



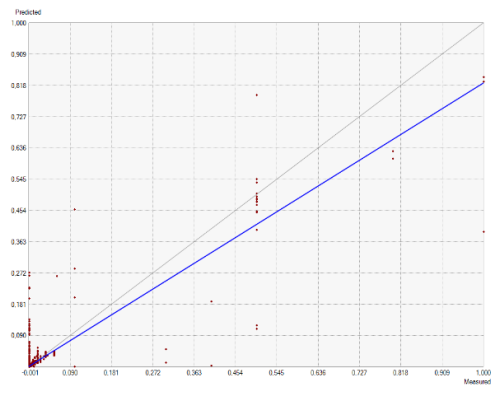
Stable



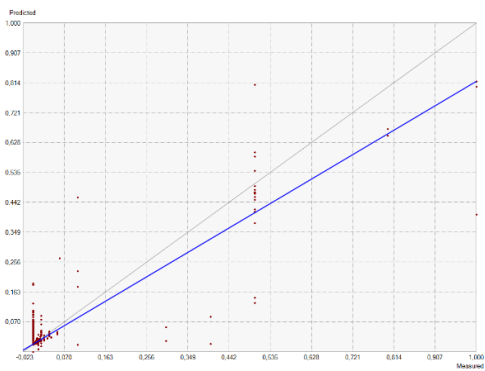
Circular



Spherical



Exponential

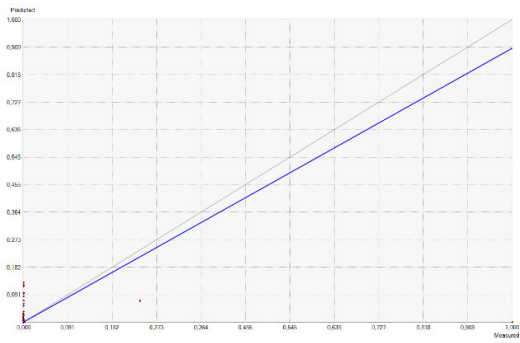


Gaussian

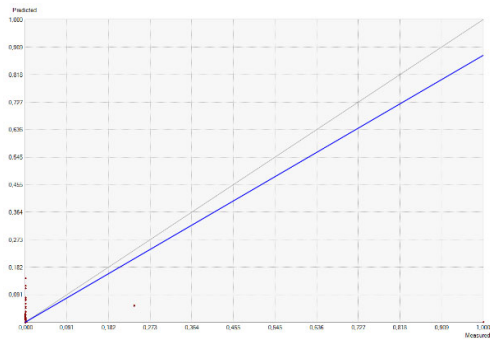
---

DON BENITO

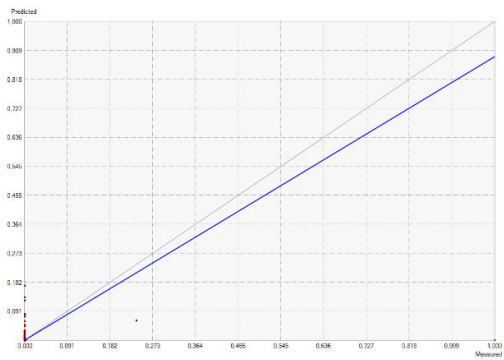
*JAN*



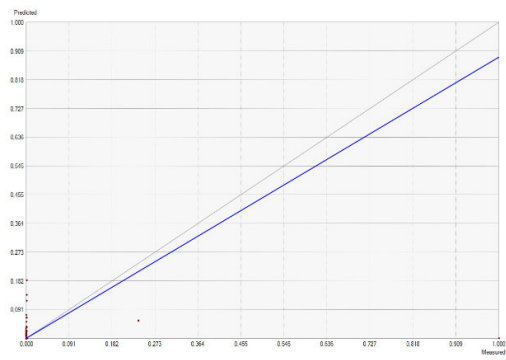
Stable



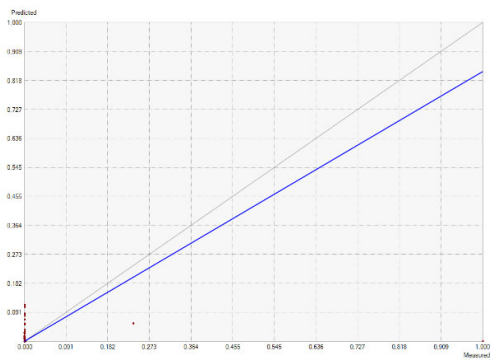
Circular



Spherical

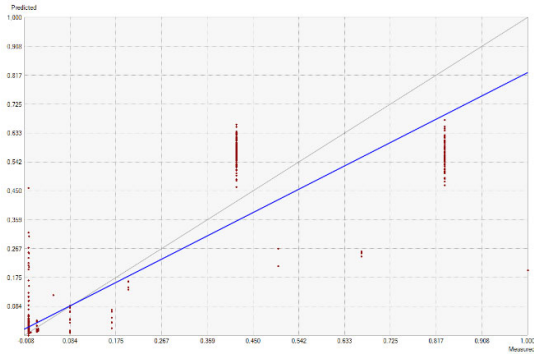


Exponential

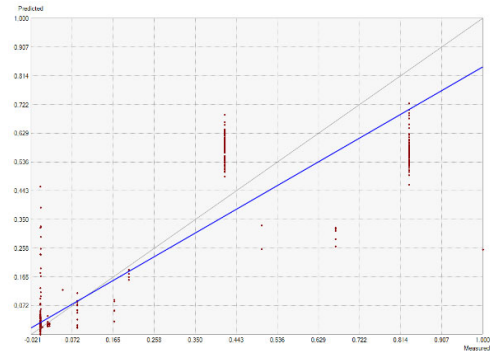


Gaussian

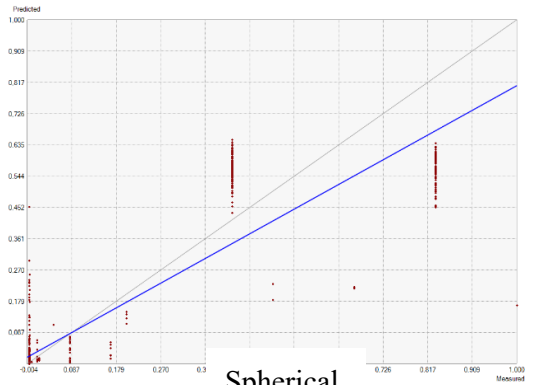
*FEB*



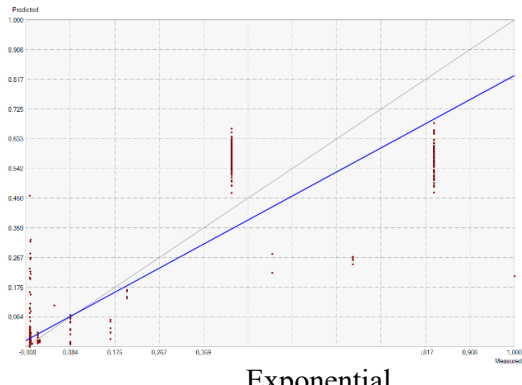
Stable



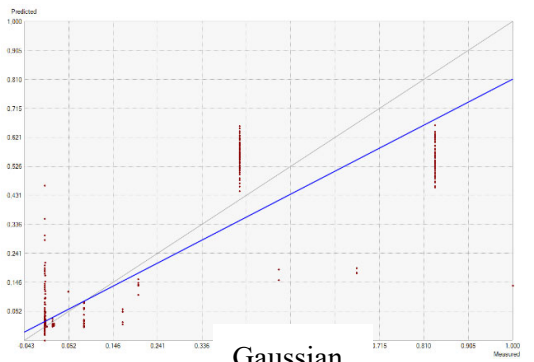
Circular



Spherical

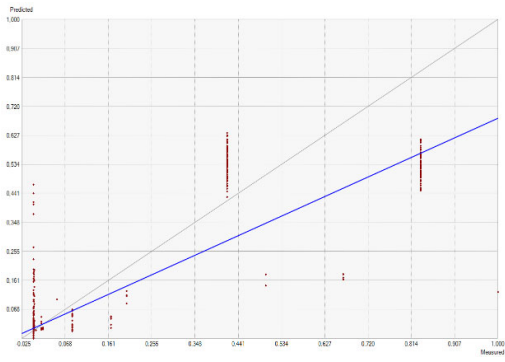


Exponential

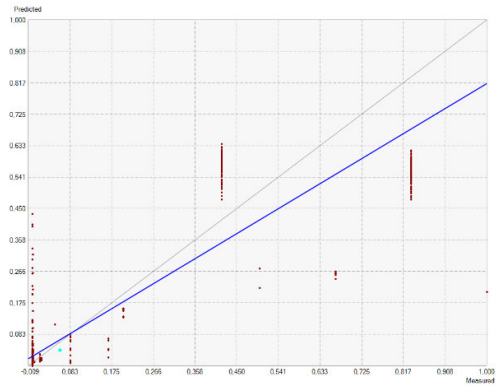


Gaussian

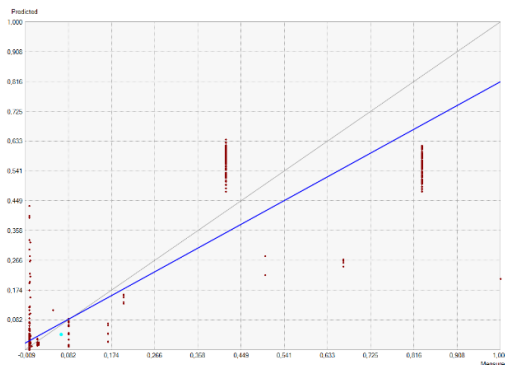
MAR



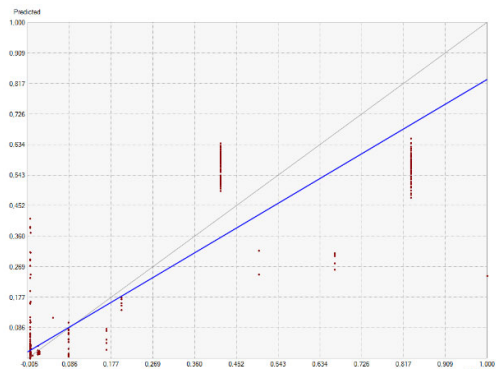
Stable



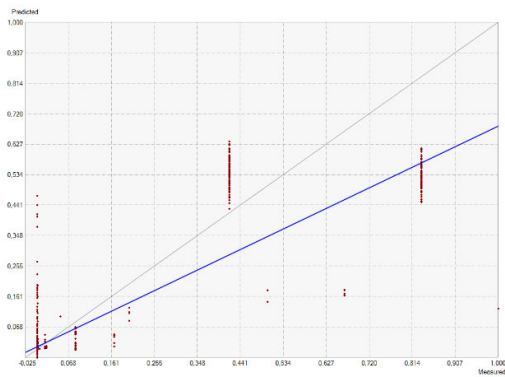
Circular



Spherical

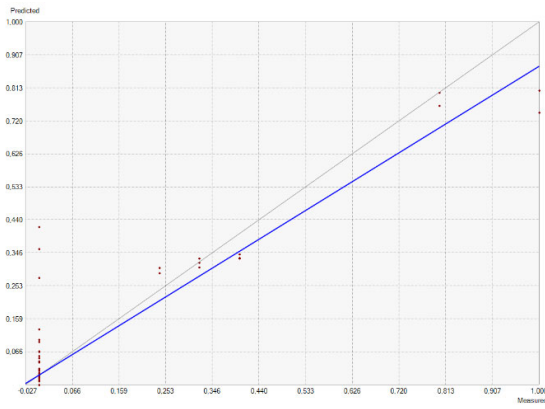


Exponential

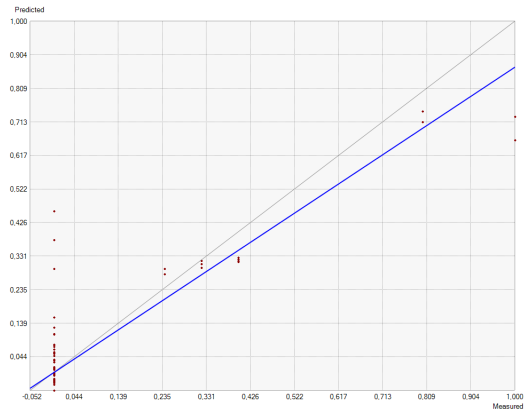


Gaussian

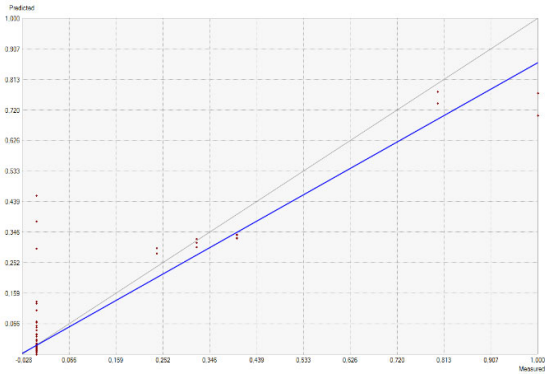
MAY/JUN



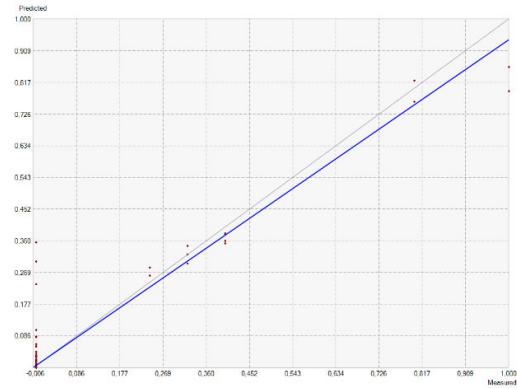
Stable



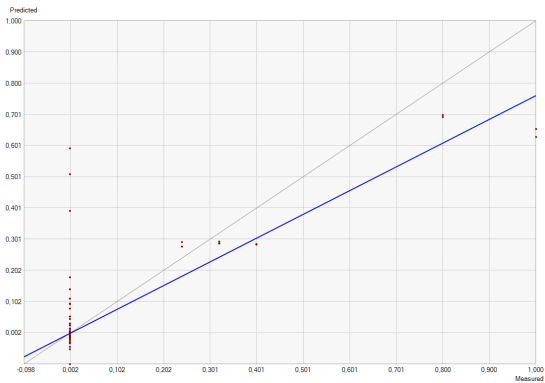
Circular



Spherical



Exponential

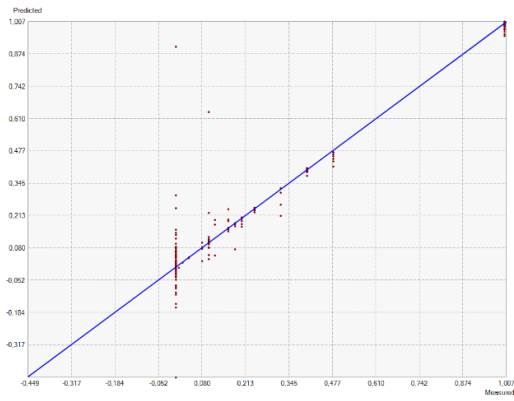


Gaussian

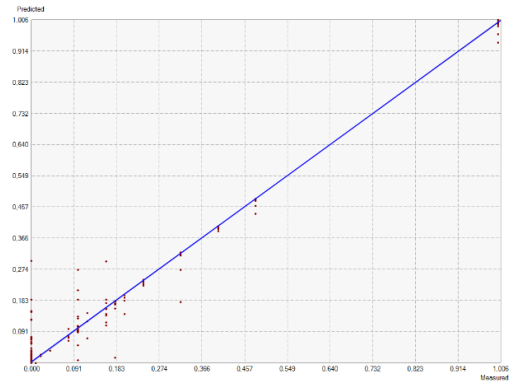
---

# PLASENCIA

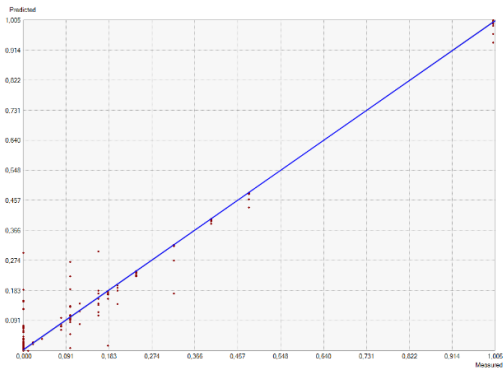
JAN



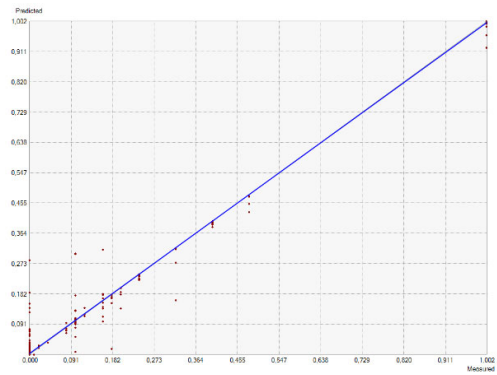
Stable



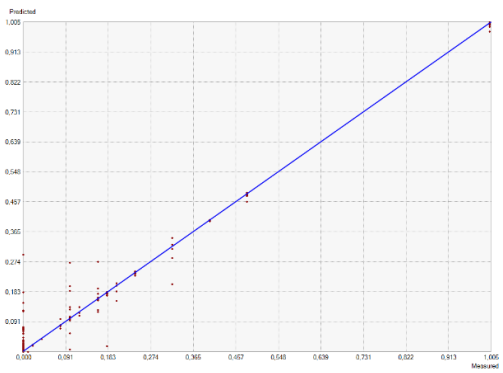
Circular



Spherical



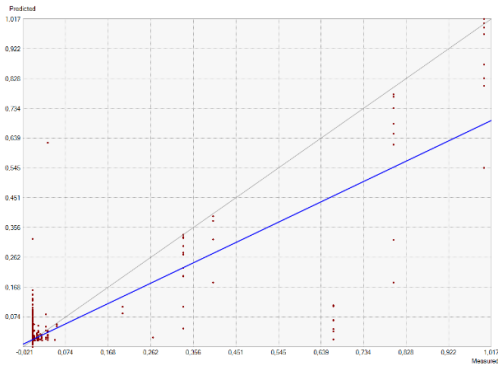
Exponential



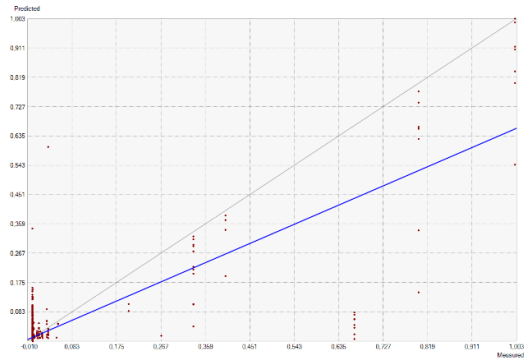
Gaussian



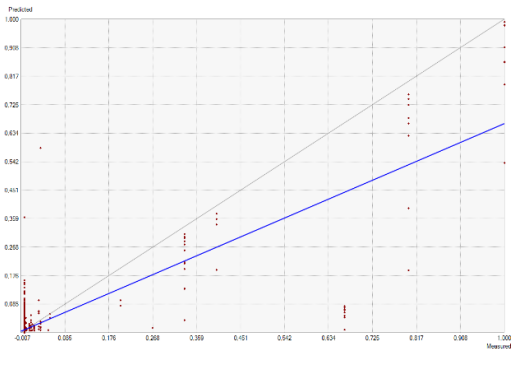
*FEB*



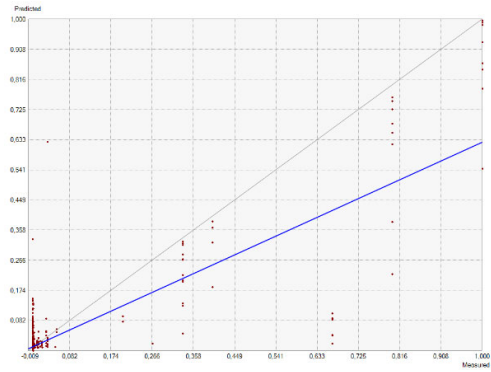
Stable



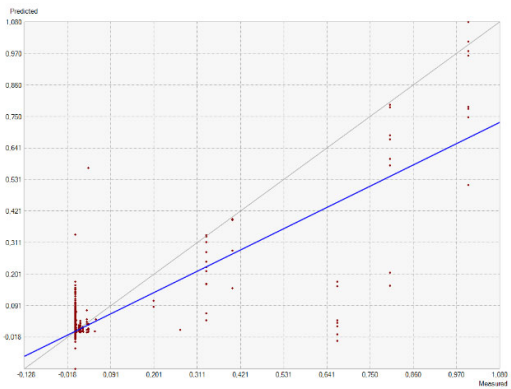
Circular



Spherical

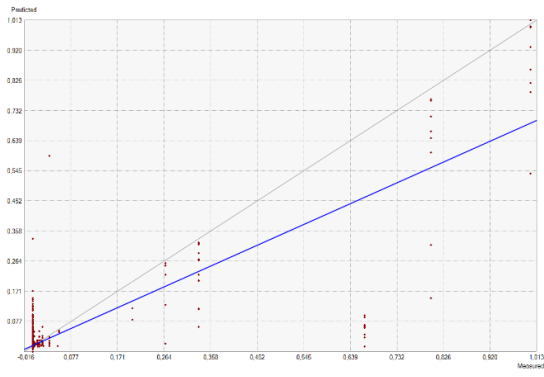


Exponential

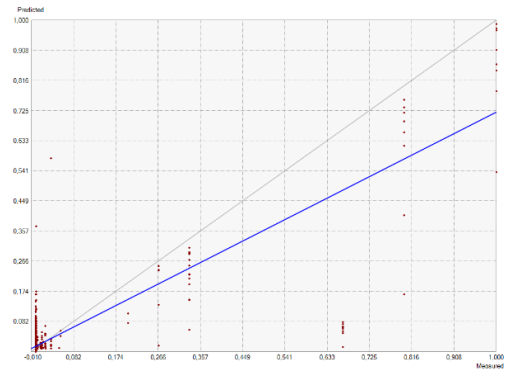


Gaussian

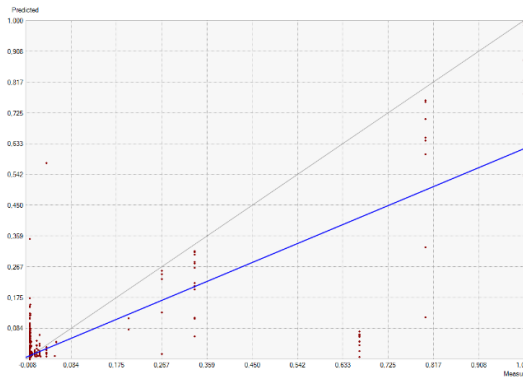
# MAR



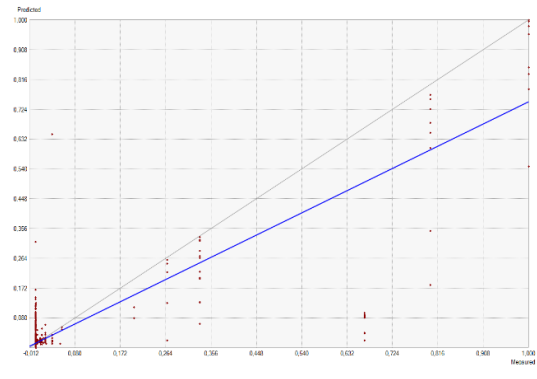
Stable



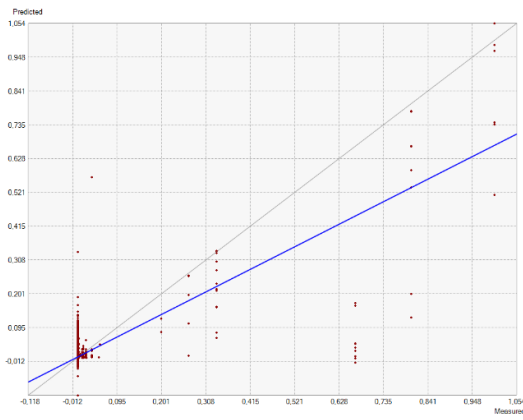
Circular



Spherical

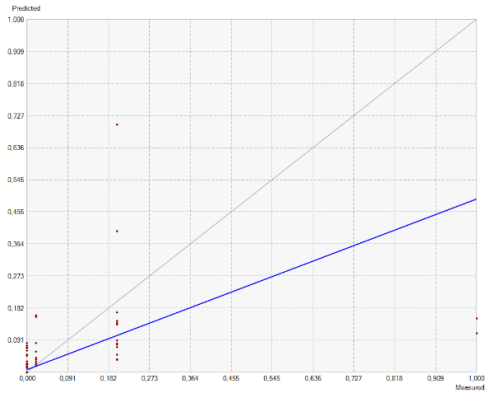


Exponential

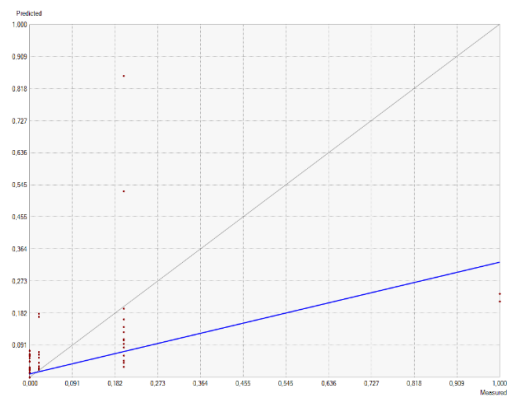


Gaussian

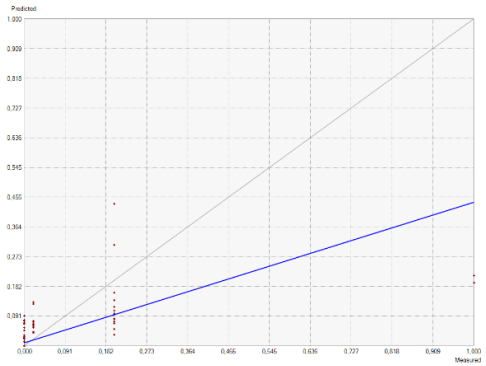
MAY/JUN



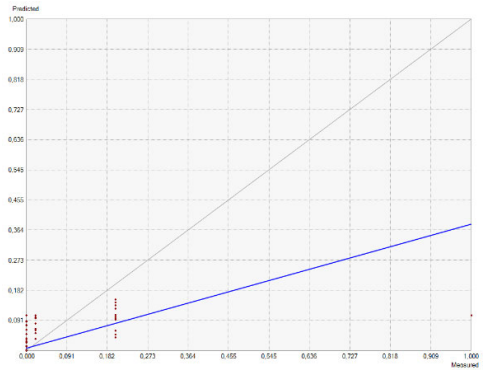
Stable



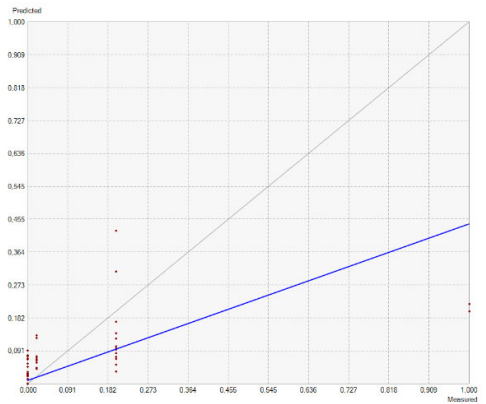
Circular



Spherical



Exponential

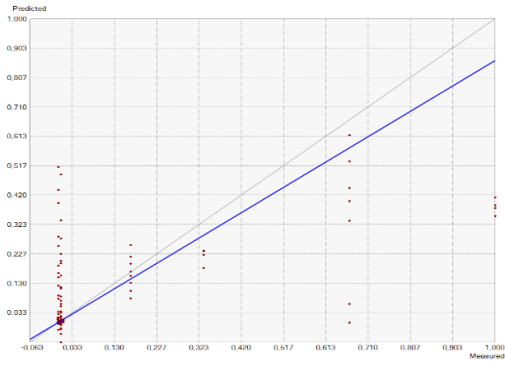


Gaussian

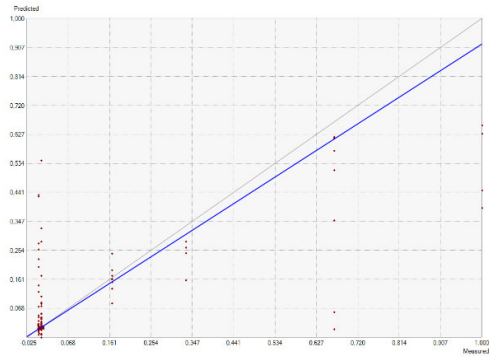


# ZAFRA

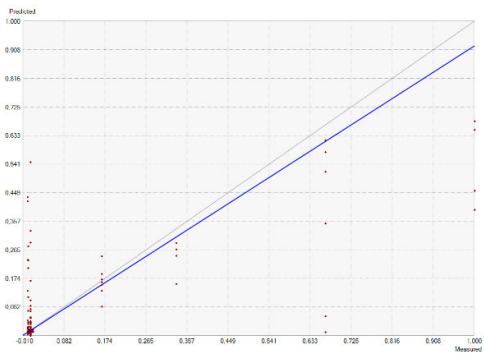
JAN



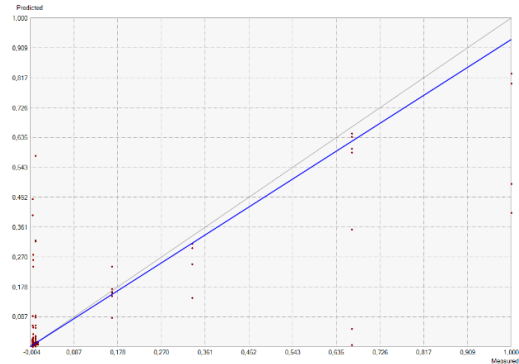
Stable



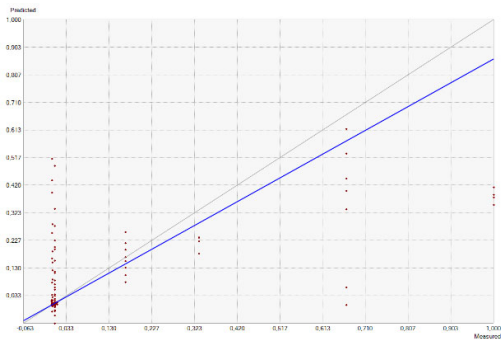
Circular



Spherical

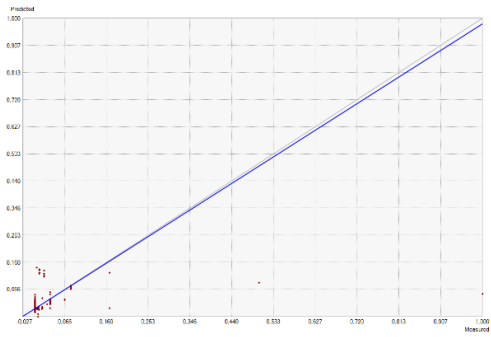


Exponential

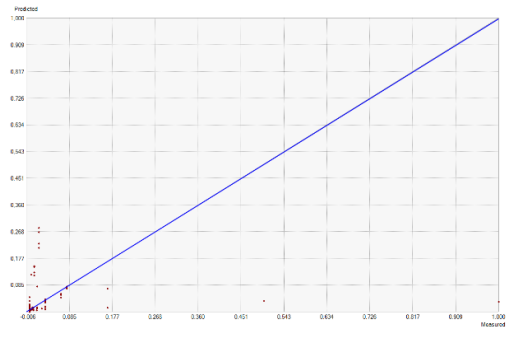


Gaussian

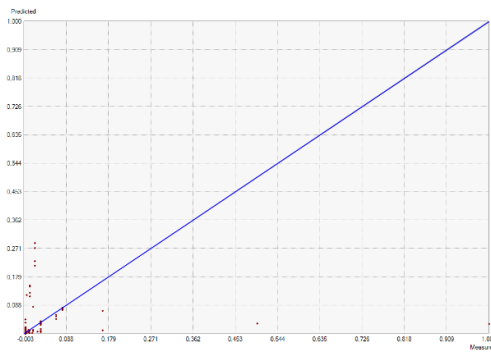
*FEB*



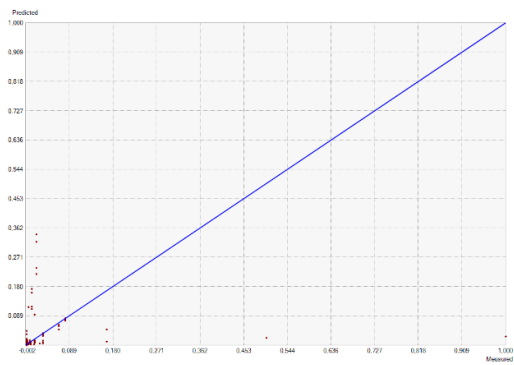
Stable



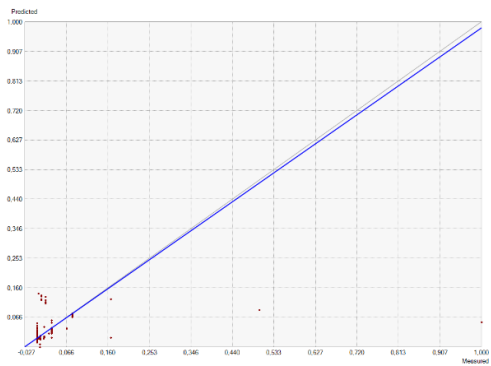
Circular



Spherical

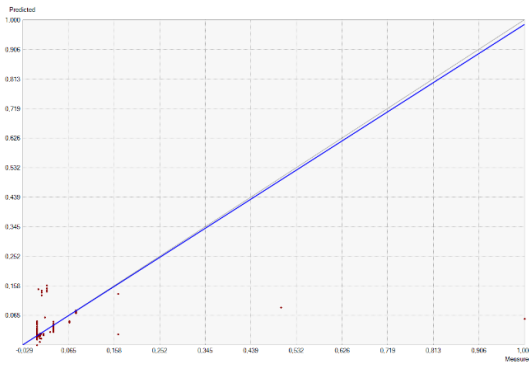


Exponential

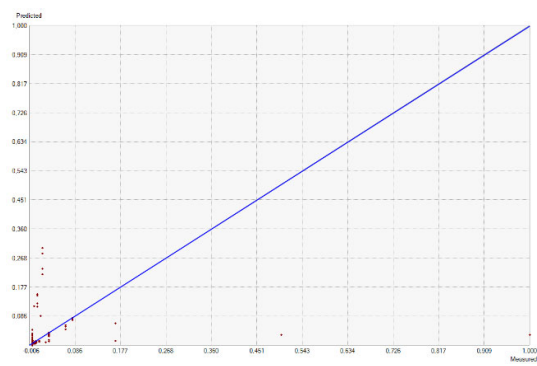


Gaussian

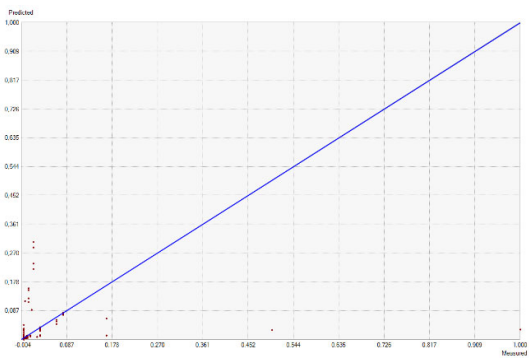
MAR



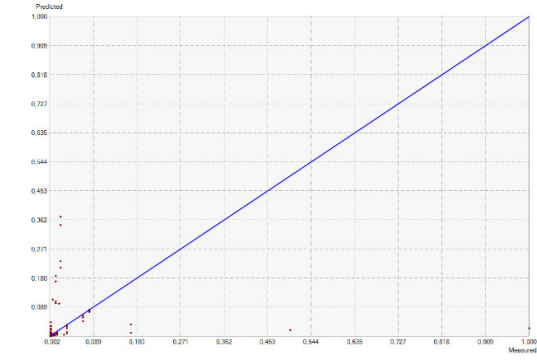
Stable



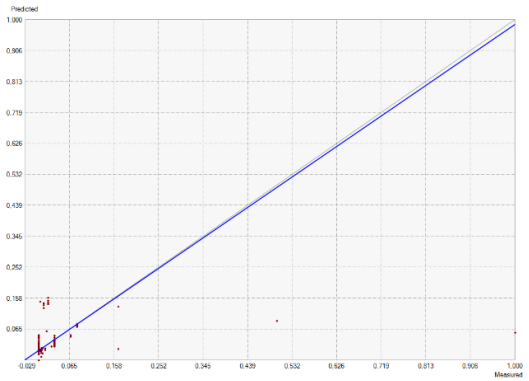
Circular



Spherical

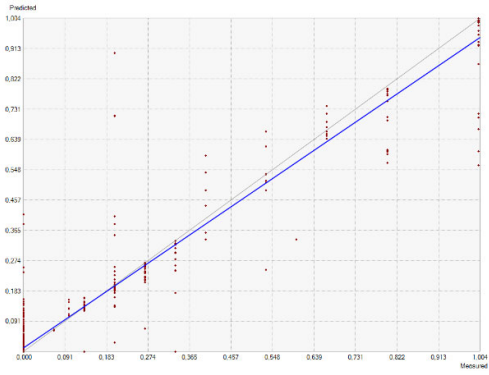


Exponential

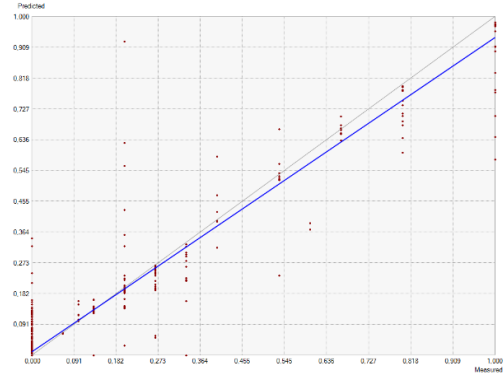


Gaussian

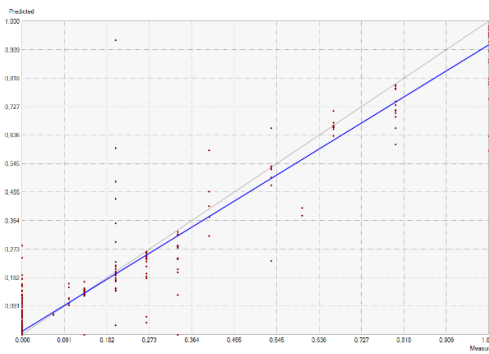
MAY/JUN



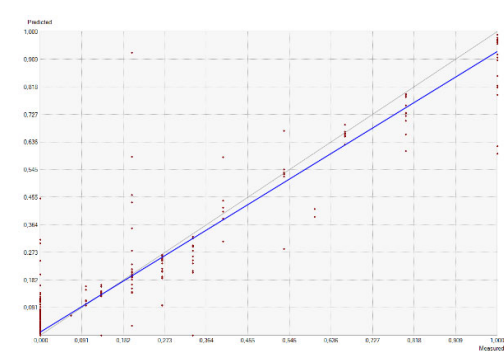
Stable



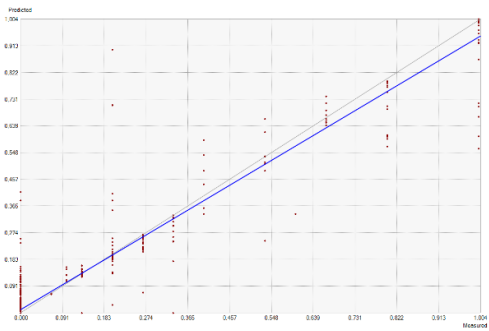
Circular



Spherical



Exponential



Gaussian